

WHAT IS CLAIMED IS:

1. A control program for controlling an operation of a microprocessor, the control program comprising a concealed program recoverable by a data scramble circuit and a non-concealed program.

2. A control program according to claim 1, wherein a recovered program recovered from the concealed program includes:

at least one function; and
a relative address list indicating a relative address of the at least one function in the recovered program,

wherein the relative address list is provided at a prescribed location in the recovered program.

3. A device, comprising:

a microprocessor;
a program memory for storing a control program for controlling an operation of the microprocessor, the control program including a concealed program and a non-concealed program;

a rewritable memory for storing a concealed program copied from the concealed program stored in the program memory; and

a data scramble circuit for recovering the concealed program stored in the rewritable memory as a recovered program.

4. A device according to claim 3, wherein the data scramble circuit acts as an error correction circuit.

5. A device according to claim 3, wherein the recovered program includes:

at least one function; and

a relative address list indicating a relative address of the at least one function in the recovered program,

wherein the relative address list is provided at a prescribed location in the recovered program.

6. A method for creating a control program, comprising:

a program descramble step of descrambling a portion of a control program by reverse scramble of a data scramble circuit in a device to be controlled, thereby creating a concealed program as a portion of the control program; and

a program storing step of storing the control program including the concealed program in a program memory so that the control program controls an operation of a microprocessor in the device to be controlled.

7. A method for creating a control program according to claim 6, wherein the program descramble step includes the steps of:

creating a non-concealed program; and

synthesizing the concealed program and the non-concealed program into the control program.

8. A method for operating a control program, comprising:

a program copying step of copying a concealed program which is a portion of the control program from a program memory into a rewritable memory;

a program recovery step of recovering the concealed program copied by the program copying step as a recovered

program by a data scramble circuit; and

a program execution step of executing a non-concealed program included in the control program and the recovered program.

9. A method for operating a control program according to claim 8, further comprising a program erasure step of erasing the recovered program from the rewritable memory.